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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/653,202	08/31/2000	Sang-Seok Lee	8733-291-00	4707
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MCKENNA	LONG & ALDRIDGE	EXAMINER		
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			DATE MAILED: 11/29/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner			Application No.	plicant(s)				
Examiner	Office Action Summary							
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 02 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Excessions of the rine rine by se validation and by EPR 1158(a). In no event, however, may a reply be timely filled Excessions of the rine rine by se validation where the provisions of J CER 1158(a). In no event, however, may a reply be timely filled Excessions of the rine rine by se validation where the provisions of J CER 1158(a). In no event, however, may a reply be timely filled Excessions of the rine rine by several time of the provision of J CER 1158(a). In no event, however, may a reply be timely filled Excessions of the rine rine should when the reply and the legis 85 (A) MONTH's from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, an only of the specific reply will by stakellac, cause the application to become ARMADOHED (39 U.S.C. § 113). Responsive to communication (s) filled on 31 August 2000. 20 Image of the communication of the communication is event timely filled, may reduce any search general time and publication is non-final. 3)								
The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 23 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Eaterclose of their may be evalable under the provisions of 37 CFR 1.75(a), in no event, however, may a reply be timely filed Eaterclose of their may be validable under the provisions of 37 CFR 1.75(a), in no event, however, may a reply be timely filed Eaterclose of their may be used before the maintenance of 37 CFR 1.75(a), in no event, however, may a reply be timely filed Eaterclose of their may be used to extended pende for reply will, by attailute or provision of the provisio								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 23 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extraordina of timer may be available under the provisions of 37 CFR 1.35(a). In no event, however, may a reply be timely filed - Extraordina of timer may be available under the provisions of 37 CFR 1.35(a). In no event, however, may a reply be timely filed - Extraordina of their may be available under the provisions of 37 CFR 1.35(a). In no event, however, may a reply be timely filed - If NO period for reply is specified above, the maximum statution period will apply and will acquire SIX (b) MONTHS from the malling date of this communication. - Feature to reply specified active diple with for they will, by statute, cause the spillation to become ARABOCHOL 50 U.S. S. § 130 anamed patient term adjustment. See 37 CFR 1.794(b). - Status 1) □ Responsive to communication(s) filed on 31 August 2000. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) 48 and g is/are rejected. 7) □ Claim(s) as and g is/are rejected. 7) □ Claim(s) as and g is/are rejected to. 8) □ Claim(s) as and g is/are rejected to . 8) □ Claim(s) as and g is/are as objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. Application Papers 9) □ The proposed drawing correction filed on is/are: a) □ accepted or b) □ objected to by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) □ The proposed drawing correction filed on is/are: a) □ accepted or b) □ objected to by the Examiner. 13 □ Cartified copies of the prior		The MAILING DATE of this communication app	_	1	Idress			
THE MAILING DATE OF THIS COMMUNICATION. Ederlinous of time raply be suitable under the provision of 37 CR 1.15(6). In or event, however, may a reply be timely filed uther SIX (8) MONTHS from the mailing date of hits communication. It NO provides or time raple as validable under the provision of 37 CR 1.15(6). In or event, however, may a reply be timely filed uther SIX (8) MONTHS from the mailing date of hits communication. It NO provides or reply is secured above, the mailurns station, relevated alloy post and stations (8) MONTHS from the mailling date of hits communication. Fallule to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (IS U.S.C. § 133). Any reply received by the Office date has the hirther morths set for the communication, even if smerly filed, may reduce any seminar plant term objective to communication(s) filed on 31 August 2000. Status 1) Responsive to communication(s) filed on 31 August 2000. 2a) This action is FINAL. 2b) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is a serve withdrawn from consideration. 5) Claim(s) 1-13 and 9 is/are rejected. 7) Claim(s) 3-14 and 9 is/are rejected. 7) Claim(s) 5-7 and 10-12 is/are objected to. 8) Claim(s) 5-7 and 10-12 is/are objected to. 9) The specification is objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. Application Papers 9) The proposed drawing correction filed on is/are: a) accepted or b)—objected to by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The proposed drawing correction filed on is/are: a)—accepted or b)—objected to by the Examiner. Priority unde								
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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4, 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Related Art (Figs. 3 and 4) in view of Miwa et al. (USPN 6,317,186 B1).

As shown in Figs. 1, 3 and 4, Applicant's Related Art discloses a method of forming a liquid crystal display (LCD) panel, comprising the steps of:

forming a common electrode on a first substrate;

forming a plurality of conductive contact dots 10 on a second substrate;

forming a seal pattern 2 on the second substrate, the seal pattern having a plurality of rectangular bent portions, wherein each portion circumvents a conductive contact dot 10, wherein the conductive contact dot comprises a silver (Ag);

(see Specification, page 4, line 22 through page 5, line 9)
assembling the first substrate and the second substrate; and
forming a liquid crystal layer between the first and second substrates,

wherein the seal pattern is formed by a dispenser (see Specification, page 5, lines 17-21).

Applicant's Prior Art discloses a method of forming a LCD panel that is basically the same as that recited in claims 1-4, 8 and 9 except that the bent portion has a

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rectangular shape. As shown in Fig. 7(b), Miwa discloses a method for applying a seal pattern 30 on a substrate 20 to realize a liquid crystal cell with large display region, the seal pattern having a plurality of U-shaped portions being bent toward an inside of the substrate, wherein each U-shaped portion circumvents a dot shaped sealing material 130. Accordingly, the U-shaped portion may have a shape of a semicircle or a shape of a triangle having all three vertexes rounded with a radius as clearly shown in Fig. 7(b). Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Applicant's Related Art with the teaching of Miwa by forming a seal pattern having a plurality of triangle or semicircular bent portions circumventing a conductive contact dot so as to obtain an excellent display quality.

Allowable Subject Matter

3. Claims 5-7 and 10-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowance:

None of the prior art of record suggests or discloses alone or in combination that:

"a seal pattern has a plurality of triangular portions being bent toward an inside of the second substrate, wherein each triangular portion circumvents a conductive contact dot" in combination with "each triangular bent portion has rounded vertexes with a radius of 0.5 to 2 millimeters; a distance between a first vertex and a second vertex is 5 to 20 millimeters; and a distance between a conductive contact dot and a third vertex is 0.1 to 5 millimeters", and

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"a seal pattern has a plurality of semicircular portions being bent toward an inside of the second substrate, wherein each semicircular portion circumvents a conductive contact dot" in combination with "each of the two ends of the semicircular bent portion has a radius of 0.5 to 2 mm; the semicircular portion has a radius of 2.5 to 10 millimeters; and a distance between a conductive contact dot and a semicircular portion is 0.1 to 5 millimeters".

The most revelant reference, USPN 6,317,186 B1 of Miwa et al., fails to disclose or suggest the above dimensions. The Miwa's reference only discloses a sealing pattern having a plurality of bent portions without any specific dimensions for the bent portion.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thoi V. Duong whose telephone number is (703) 308-3171. The examiner can normally be reached on Monday-Friday from 8:00 am to 4:30 pm.

If attemps to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim, can be reached at (703) 305-3492.

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Thoi Duong

11/22/2002

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